



Generell informasjon

Brønnbane navn	15/3-7
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	GUDRUN
Funn	15/3-1 S Gudrun
Brønn navn	15/3-7
Seismisk lokalisering	inline 1064 & x-line 1665-survey mc3dq15
Utvinningstillatelse	025
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	1004-L
Boreinnretning	WEST ALPHA
Boredager	129
Borestart	26.04.2001
Boreslutt	01.09.2001
Frigitt dato	01.09.2003
Publiseringsdato	15.02.2006
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	LATE JURASSIC
1. nivå med hydrokarboner, formasjon.	INTRA DRAUPNE FM SS
2. nivå med hydrokarboner, alder	MIDDLE JURASSIC
2. nivå med hydrokarboner, formasjon	HUGIN FM
Avstand, boredekk - midlere havflate [m]	18.0
Vanndybde ved midlere havflate [m]	109.0
Totalt målt dybde (MD) [m RKB]	4818.0
Totalt vertikalt dybde (TVD) [m RKB]	4817.0
Maks inklinasjon [°]	2.9
Temperatur ved bunn av brønnbanen [°C]	154



Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	SLEIPNER FM
Geodetisk datum	ED50
NS grader	58° 50' 54.57" N
ØV grader	1° 45' 8.59" E
NS UTM [m]	6524002.59
ØV UTM [m]	428006.13
UTM sone	31
NPDID for brønnbanen	4055

Brønnhistorie

General

Well 15/3-7 was drilled to appraise the Gudrun Discovery in the North Sea, on the east flank of the South Viking Graben and west of the Utsira High. The main objective was to improve the data quality related to formation pressure, fluid properties and other reservoir parameters in the Hugin Formation in the Middle Jurassic. The secondary objectives were to explore possible reservoir sands in the Late Jurassic and the hydrocarbon phase of any proven hydrocarbons.

Operations and results

Appraisal well 15/3-7 was spudded with the semi-submersible installation West Alpha on 26 April 2001 and drilled to TD at 4818 m, 211 meters into the Middle Jurassic Hugin Formation. The 8 1/2" hole was drilled in 21 bit runs, including 4 core runs. The main reason for all the bit runs was junk in hole causing 18 days NPT. The well was drilled with seawater and bentonite down to 945 m, with KCl/polymer/glycol from 945 m to 2740 m, and with oil based mud from 2740 m to TD. No shallow gas was observed.

The well penetrated several Tertiary sandstone sequences including a 373 m thick Heimdal-Ty sequence. The Draupne Formation was found to be 350 m thick and contained several intra-Draupne sandstone sequences interbedded with claystone and limestone. The claystones became darker and more organic rich with depth. A MDT sample from 4224 m in the upper part of the Draupne Formation proved light oil. The upper part of the Hugin Formation was found water bearing as confirmed by a water sample from the Hugin 1 sandstone at 4610 m. No pressure gradients could be obtained from the Hugin Formation. In the lower part of the Hugin Formation, no sample or pressure data could be obtained. However, sandstones were gas filled based on logs, with a likely GWC at 4787 m. Pressure gradients from the Draupne Formation indicate no communication between the oil- and water-bearing zones.

Four conventional cores were cut in the interval 4609 m to 4670 m in the Hugin Formation, with a total of 46.4 m core recovered.

The well was permanently abandoned on as a dry well.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
950.00	4814.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4609.0	4615.7	[m]
2	4616.6	4617.5	[m]
3	4620.5	4633.6	[m]
4	4643.0	4668.8	[m]

Total kjerneprøve lengde [m]	46.4
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



4609-4614m



4614-4621m



4621-4626m



4626-4631m



4631-4645m



4645-4650m



4650-4655m



4655-4660m



4660-4665m



4665-4668m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1200.0	[m]	DC	UOS
1220.0	[m]	DC	UOS



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 30.5.2024 - 15:36

1240.0	[m]	DC	UOS
1260.0	[m]	DC	UOS
1280.0	[m]	DC	UOS
1300.0	[m]	DC	UOS
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Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 30.5.2024 - 15:36

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Faktasider

Brønnbane / Leting

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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
127	NORDLAND GP
668	UTSIRA FM
929	HORDALAND GP
1048	SKADE FM
1199	NO FORMAL NAME
1476	GRID FM
1850	NO FORMAL NAME
2164	ROGALAND GP
2164	BALDER FM
2230	SELE FM
2280	LISTA FM
2309	HEIMDAL FM
2589	TY FM
2682	VÅLE FM
2696	SHETLAND GP
2696	JORSALFARE FM
3117	KYRRE FM
3327	TRYGGVASON FM
3654	BLODØKS FM
3668	SVARTE FM
3752	CROMER KNOLL GP
3752	RØDBY FM
3867	SOLA FM
3895	ÅSGARD FM
4049	VIKING GP
4049	DRAUPNE FM
4218	INTRA DRAUPNE FM SS
4230	DRAUPNE FM
4330	INTRA DRAUPNE FM SS
4398	DRAUPNE FM
4502	HEATHER FM
4607	VESTLAND GP
4607	HUGIN FM
4793	SLEIPNER FM

Spleisede logger





Dokument navn	Dokument format	Dokument størrelse [KB]
4055	pdf	0.59

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
4055_1	pdf	1.07

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
4055_15_3_7_COMPLETION_LOG	.pdf	4.86
4055_15_3_7_COMPLETION_REPORT	.PDF	6.64

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT DSI GR EMS ACTS	3922	4778
AIT IPLT GR ACTS	4720	4818
CMR ECS GR ACTS	4062	4777
CST GR	4707	4810
DSI LDT GR	2680	3726
IPLT ACTS GR	3946	4778
MCTS GR	4224	4794
MDT GR	4073	4763
MDT GR	4609	4773
MSCT GR	4074	4447
MWD - CDR	189	2740
MWD - CDR	2819	3996
MWD - CDR	4670	4818
MWD - CDR ISONIC	2777	2819
MWD - CDR ISONIC CDN	2740	2777
MWD - CDR RAB	4465	4643
MWD - RAB VISION	4063	4260
MWD - VISION	3954	4063





MWD - VISION	4260	4465
VSP GR	1050	3709
VSP GR	3586	4801

Foringsrør og formasjonsstyrketester

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm3]	Type formasjonstest
CONDUCTOR	30	188.0	36	190.0	0.00	LOT
SURF.COND.	20	940.0	26	945.0	1.87	LOT
INTERM.	13 3/8	2682.0	17 1/2	2740.0	1.67	LOT
INTERM.	9 7/8	3990.0	12 1/4	3996.0	2.08	LOT
OPEN HOLE		4818.0	8 1/2	4818.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
189	1.03	6.0		SEAWATER/BENT.	
245	1.03			SEAWATER	
897	1.03			SEAWATER	
1300	1.27	15.0		GLYDRILL	
1513	1.27	15.0		GLYDRILL	
1920	1.37	22.0		GLYDRILL	
2679	1.37	19.0		GLYDRILL	
2743	1.37			DUMMY	
3140	1.39	26.0		VERSAPRO	
3800	1.55	30.0		VERSAPRO	
3996	1.55	32.0		VERSAPRO	
4063	1.98	53.0		VERSAPRO	
4149	2.00	67.0		VERSAPRO	
4149	2.00	57.0		VERSAPRO	
4635	2.00	66.0		VERSAPRO	
4755	2.00	66.0		VERSAPRO	

Trykkplott





Porertrykksdataene kommer fra logging i brønnen hvis ingen annen kilde er oppgitt. I noen brønner der trykk ikke er logget, er det brukt informasjon fra formasjonstester eller brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
4055 Formation pressure (Formasjonstrykk)	pdf	0.22

